

IN THE CLAIMS:

1. (Currently Amended) A method ~~of reporting capability of a mobile device in order to improve a user experience~~, comprising:

offering a web service that makes available a device profile from a device profile repository located within ~~the mobile~~ a mobile device, using a reverse hypertext transfer protocol (~~HTTP~~) binding for simple object access protocol (~~SOAP~~),

providing at least a portion of the device profile from the device profile repository upon request, via the web service, and

receiving enhanced content at the mobile device, the enhanced content being based at least partly upon ~~[[the]]~~ a capability of the mobile device disclosed by the web service,

wherein the enhanced content comprises content formatting that optimizes how the content is rendered.

2. (Currently Amended) The method of claim 1, ~~wherein the enhanced content comprises optimized content formatting, and~~ wherein the mobile device does not host ~~is configured differently than an HTTP~~ a hypertext transfer protocol server.

3. (Currently Amended) The method of claim 1, further comprising ~~the steps of:~~

changing at least one characteristic of the mobile device causing a modification of the capability of the mobile device for accepting at least one type of content format, and

sending an update signal to the device profile located at the device profile repository within the mobile device, the update signal being indicative of the modification. ~~modification,~~ and

~~providing at least a portion of the device profile from the device profile repository upon request, via the web service.~~

4. (Currently Amended) The method of claim 3, wherein providing the device profile from the device profile repository upon request includes:
  - receiving a profile inquiry signal from a server outside the mobile device, the profile inquiry signal being a simple object access protocol (~~SOAP~~) signal asking for at least part of the device profile; and
  - sending to the server a ~~SOAP~~ simple object access protocol response message inside a request, the response message including the part of the device profile from the device profile repository,
  - wherein the web service is provided at least for content formatting, and
  - wherein the device profile comprises a user agent profile.
5. (Original) The method of claim 3, wherein the characteristic of the mobile device is a hardware feature, a software feature, or an environment feature.
6. (Original) The method of claim 2, wherein the content formatting is distinct from content selection, and wherein the content formatting is for adapting selected content to the capability of the mobile device.
7. (Currently Amended) The method of claim 1, wherein the device profile repository is a memory module instead of a server, and wherein the mobile device hosting the device profile repository is configured differently from ~~an HTTP~~ a hypertext transfer protocol server.
8. (Currently Amended) The method of claim 4, wherein the server is ~~an HTTP~~ a hypertext transfer protocol server, and wherein the request containing the ~~SOAP~~ simple object access protocol response message is ~~an HTTP~~ a hypertext transfer protocol request.

9. (Original) The method of claim 3, wherein providing at least a portion of the device profile is subsequently followed by utilizing the device profile to optimize the content format, and supplying the content in the content format to the mobile device.
10. (Original) The method of claim 9, wherein the utilizing and the supplying are performed by a content server located external to the mobile device.
11. (Original) The method of claim 2, wherein the content formatting includes scaling a bitmap and adjusting a color map to fit a display.
12. (Original) The method of claim 2, wherein the content formatting includes using resampling to reduce an image size or a music file size.
13. (Currently Amended) A computer program product comprising a computer readable medium having executable code stored therein; the code, when executed by a processor, adapted to carry out the method of ~~A data structure embodied in a computer readable medium, for performing the method of~~ claim 1.
14. (Currently Amended) ~~A mobile device for reporting capability in order to improve a user experience,~~ Apparatus comprising:
  - a device profile repository ~~for making~~ configured to make available a device profile;
  - a processing unit, responsive to at least part of the device profile made available by the profile repository, ~~for providing~~ configured to provide a device profile signal, and
  - a transceiver, responsive to the device profile signal, ~~for transmitting~~ configured to transmit said device profile signal as a web service using reverse hypertext transfer protocol (HTTP) binding for simple object access protocol (SOAP),

wherein the transceiver is also ~~for receiving~~ configured to receive enhanced content at the apparatus ~~mobile device~~, the enhanced content being based at least partly upon ~~[[the]]~~ a capability of the ~~mobile device~~ apparatus disclosed by the device profile signal,  
wherein the processing unit is also responsive to a profile inquiry signal, and is configured to seek the device profile from the profile repository,  
wherein the apparatus comprises or is comprised by a mobile device, and  
wherein the enhanced content comprises content formatting that optimizes how the content is rendered.

15. (Currently Amended) The ~~mobile device~~ apparatus of claim 14, ~~wherein the enhanced content comprises optimized content formatting, and wherein the mobile device does not host is configured differently than an HTTP a~~ hypertext transfer protocol server.

16. (Currently Amended) The ~~mobile device~~ apparatus of claim 14,  
wherein the processing unit is also responsive to a change in at least one characteristic of the mobile device that causes a modification of the capability to accept at least one type of content format, the processing unit being configured for sending an update signal indicative of the modification, and  
wherein the device profile repository is responsive to the update signal, and ~~is for consequently storing~~ is configured to store an updated device profile. ~~in the device profile repository, and~~  
~~wherein the processing unit is also responsive to a profile inquiry signal, and is for seeking the device profile from the profile repository.~~

17. (Currently Amended) The ~~mobile device~~ apparatus of claim 16,  
wherein the transceiver is for transmitting the device profile signal as a SOAP simple object access protocol response message inside a request, the device profile signal being a

response to the profile inquiry signal that is a received ~~SOAP~~ simple object access protocol signal.

18. (Currently Amended) The ~~mobile device~~ apparatus of claim 16, wherein the device profile comprises a user agent profile, and wherein the web service is used at least for content formatting.

19. (Currently Amended) The ~~mobile device~~ apparatus of claim 16, wherein the characteristic of the mobile device is a hardware feature, a software feature, or an environment feature.

20. (Currently Amended) The ~~mobile device~~ apparatus of claim 17, wherein the content formatting is distinct from content selection, and wherein the content formatting is for adapting selected content to the capability of the mobile device.

21. (Currently Amended) The ~~mobile device~~ apparatus of claim 16, wherein the device profile repository is a memory module instead of a server, and wherein the mobile device hosting the device profile repository is configured differently from ~~an HTTP~~ a hypertext transfer protocol server.

22. (Currently Amended) The ~~mobile device~~ apparatus of claim 17, wherein the request containing the ~~SOAP~~ simple object access protocol response message is ~~an HTTP~~ a hypertext transfer protocol request.

23. (Currently Amended) The ~~mobile device~~ apparatus of claim 15, wherein the content formatting includes scaling a bitmap and adjusting a color map to fit a display.

24. (Currently Amended) The ~~mobile device~~ apparatus of claim 15, wherein the content formatting includes using resampling to reduce an image size or a music file size.

25. (Currently Amended) A system ~~for reporting capability of a mobile device in order to improve a user experience~~, comprising:

a mobile device including a device profile repository, for providing a device profile signal as a web service upon request, the device profile signal being indicative of ~~[[the]]~~ a capability; and

a content server, responsive to the device profile signal, for providing enhanced content that is enhanced according to the capability of the mobile device,

wherein the enhanced content comprises content formatting that optimizes how the content is rendered.

26. (Currently Amended) The system of claim 25, wherein the web service is provided by reverse HTTP hypertext transfer protocol binding for ~~SOAP~~ simple object access protocol, and wherein the capability is dynamic.

27. (New) Apparatus comprising:

means for making available a device profile;

means for providing a device profile signal, responsive to at least part of the device profile made available by the means for making available the device profile, and

means for transmitting said device profile signal, responsive to the device profile signal, as a web service using reverse hypertext transfer protocol binding for simple object access protocol,

wherein the means for transmitting is also for receiving enhanced content at the apparatus, the enhanced content being based at least partly upon a capability of the apparatus disclosed by the device profile signal,

wherein the means for providing the device profile signal is also responsive to a profile inquiry signal, and is configured to seek the device profile from the means for making available the device profile,

wherein the apparatus comprises or is comprised by a mobile device, and

wherein the enhanced content comprises content formatting that optimizes how the content is rendered.

28. (New) The apparatus of claim 27 wherein the apparatus does not host a hypertext transfer protocol server.

29. (New) The apparatus of claim 27,

wherein the means for providing the device profile signal is also responsive to a change in at least one characteristic of the apparatus that causes a modification of the capability to accept at least one type of content format, the means for providing the device profile signal also being for sending an update signal indicative of the modification, and

wherein the means for making available the device profile is responsive to the update signal, and is also for storing an updated device profile.